

SORRT

NETWORK

CALENDAR

NOVEMBER 15, 2006
America Recycles Day

ANNUAL RECYCLING REPORT FILING DEADLINES

FEBRUARY 1, 2007

Annual recycling reports due for **large businesses**.
(250 or more on-site employees)

MARCH 1, 2007

Annual recycling reports due for **medium** (100-249 on-site employees) **selected small businesses** (less than 100 on-site employees), and **property managers filing for multi-tenant buildings**.



Business
Recycling:
It's the
Law.



Cooperative Recycling and Refuse Collection Project: One Alternative for Small Businesses

Owners of small businesses throughout the County have expressed concern to the Division of Solid Waste Services (DSWS) about the cost and availability of recycling and refuse collection services based on the relatively small amount of materials that they generate. In addition, many businesses in Central Business Districts (CBD) face space constraints when it comes to placing recycling and refuse collection containers outside of their establishments. It is also clear that small businesses face an often disproportionate administrative burden when contracting for recycling and refuse collection services as the County does not currently provide recycling or refuse collection services for businesses.

To address these concerns, DSWS began to examine ways to facilitate the recycling efforts of smaller-scale businesses by testing alternative collection methods, such as cooperative recycling and refuse collection services.

Silver Spring Cooperative Collection Project: October, 2005 Project Participants

As a first step, DSWS identified an area located off Mayor Lane and Georgia Avenue in Silver Spring with a number of adjoining businesses of various types that generate a relatively small quantity of materials and have limited space available for placement of collection containers. DSWS solicited business participation for a study and conducted several informational meetings with business owners and managers to educate them on the initiative and garner their support. Each business had separate refuse collection service contracts in place, however, none had yet initiated formal recycling programs.



Mayor Lane in Silver Spring

(continued on page 2)



www.montgomerycountymd.gov/recycling

(continued from page 1)

The Silver Spring businesses that agreed and are participating in the cooperative collection project are:

- Bell Flowers
- Hertz Rent A Car
- Innovative Business Interiors
- Plaza Art Materials and Framing
- Radio Shack
- Regal Paint Centers



Waste Stream Analysis

Next, DSWs commissioned a seven-week study to determine the weight and percentage of the waste stream that is recyclable from these businesses to establish an appropriate level of collection service for those recyclables. DSWs staff first met with all participants to discuss the procedures and expectations of the upcoming study, before the recyclables and refuse generated from each business were measured. Businesses were provided with two recycling containers and were asked to separate all mixed paper and commingled materials. DSWs held individual on-site training for managers and employees on proper separation techniques, and provided brochures and flyers showing materials acceptable for recycling. As a result of this study, it was determined that the largest amount of recyclable material generated by the participating businesses was paper (approximately 57 percent of waste stream).

Based on this data, it appeared that the businesses could set up a cooperative recycling and refuse collection contract with shared containers and shared pricing. Cost information was obtained from several collection companies. The businesses selected and signed individualized service contracts with Waste Management reflecting their portion of the overall costs. The businesses, Waste Management, and DSWs staff met at the site and determined the most appropriate location for placement of an 8-cubic yard refuse container, an 8-cubic yard mixed paper container, and a 96-gallon commingled cart. In addition, DSWs provided each business with a slim jim container for mixed paper and a 28-quart desktide recycling bin for commingled materials. Collection details and data measurement needs were also discussed. On October 25, 2005, Waste Management delivered the new recycling and refuse containers, and service commenced. DSWs labeled the outdoor central containers as well as the individual indoor recycling bins with appropriate



Recycled materials from each of the Silver Spring businesses participating in the cooperative collection project are separated and weighed.

stickers to indicate the type of material that should be placed inside. Over the next month, DSWs monitored the site daily to resolve any initial problems resulting from the cooperative collection. All containers were checked to ensure recyclables were placed in the appropriate bin, that the contracted service level was appropriate, and as needed, reminder notices were distributed to the businesses to ensure compliance. DSWs staff visited the businesses to discuss various problems resulting from employee misunderstanding or error.

Each business was estimated to save between from \$38 to \$227 per month by combining their refuse collection services and adding recycling collection to their combined service level. The County provided each business with a certificate of appreciation for their efforts and for supporting the first formalized cooperative recycling and refuse collection project of its kind in Montgomery County.

At a press conference held on November 21, 2005 to officially start the cooperative collection effort, DSWs announced plans to conduct similar projects in the Bethesda and Wheaton CBD.

The Silver Spring Cooperative Collection effort continues to show progress. DSWs has been continually monitoring the site to collect data and ensure proper levels of service are maintained. Through June 2006, the overall recycling rate for the project is averaging 53 percent. Preliminary cost information shows the participating businesses are realizing cost savings by contracting their recycling and refuse collection cooperatively.



(Top) DPWT Director, Mr. Arthur Holmes, Jr., announces the start up of the Silver Spring Cooperative Collection Project.
(Bottom) Mr. Holmes presents Mr. Charles Atwell of Innovative Business Interiors with a certificate.

Bethesda Cooperative Collection Project: February, 2006

DSWS identified a location in the Bethesda CBD to conduct a second cooperative recycling and refuse collection project. Staff selected a site and met individually with each of the businesses on several occasions to discuss the project and expected outcomes. The participating businesses include:

- La Miche Restaurant
- Pacific Grill
- Quizno's
- Victor's Pizza
- California Tortilla



These businesses shared containers, but were separately invoiced for individual service. It was also apparent that their level of service did not meet their needs. Prior to the start of the project, DSWS provided each of the businesses with information on the project and educational materials, including a list of materials acceptable for recycling, detailed instructions, and a map of the site indicating the appropriate containers to use. Since many of the kitchen staff were native Spanish-speakers, DSWS provided these materials in both English and Spanish.

DSWS provided each business with indoor recycling containers, plastic bags and markers so that each business would properly separate and identify their refuse and recyclables for easy identification once they were placed in the central collection containers. DSWS labeled all indoor and outdoor central collection containers to make it easy for the employees to identify the appropriate container. DSWS also provided on-site education to each of the businesses and to the key employees who were responsible for the removal of refuse and recyclable materials from their business.

Over a four-week period beginning on February 27, 2006, DSWS conducted waste audits of the five restaurants; monitored the site daily to ensure the businesses were participating and discussed any issues and concerns that arose with the businesses. Waste and recyclables were sorted, measured, and documented. Data collected from the audit portion of the study showed that the businesses recycled up to 31 percent of their overall waste stream. Information obtained during the study was sent to numerous recycling and refuse collection companies to obtain bids. Two bids were received, one of which was deemed unacceptable since it did not meet the specifications. The businesses selected Waste Management as their new service provider. In August 2006, Waste Management will set-up an 8-cubic yard dumpster for trash, an 8-cubic yard dumpster for mixed paper, and a 4-cubic yard container for commingled materials. The businesses signed individualized contracts and will pay for their share of the overall costs. It is expected that these businesses will save anywhere from \$11 to \$194 per month. The service is expected to begin in late August.

Wheaton Cooperative Collection Project: June 2006

The third in a series of cooperative collection projects aimed at helping small businesses improve their recycling efforts by cooperatively contracting waste and recycling collection services began taking shape in the Wheaton Central Business District in June 2006. After meeting with a number of small businesses to discuss the concept and the expected outcomes, DSWS identified six businesses to participate. These businesses include:

- P&F Meat Market
- Marchone's
- Filipino Home Bakery & Grocery
- Rock Creek Catering
- Kenny's Sub Shop
- Peacock Burmese Restaurant

These six small businesses currently have various refuse collectors that service their business during the week but on different days and schedules. Currently, only one of the businesses is recycling.

In mid-June, SCS Engineers, under contract by DSWS, began a four-week waste analysis survey of the participating businesses' waste and recycling activities. Their trash was removed and weighed at an off-site location, and recyclable materials such as mixed paper, cardboard, and commingled materials were sorted and weighed.

After the four-week audit of the businesses waste stream, the data was analyzed and preliminary information was provided to DSWS. Based on a review of the data, the six participating businesses could have recycled approximately 51 percent of their waste stream.

The next steps include determining the anticipated level of refuse and recycling collection service that the businesses will be able to share. Once this information is developed, the contractor will develop a bid specification sheet and will submit a request for service proposals from a variety of recycling and refuse collection companies that service businesses in Montgomery County. After bids are received, the information will be provided to the business owners who will meet and select a contractor that will provide cooperative recycling and refuse collection services to these six participating businesses.

Focus On: PLASTICS



The Market Value of PET#1 and HDPE#2 Plastics from 2005 to 2006.

Polyethylene Terephthalate (PET#1) is a form of polyester or Mylar that is extremely tough and useful. Recycled PET has many uses and there are well-established markets for this resin. The largest usage is in textiles and carpet companies, which can often use 100% recycled resin to manufacture polyester carpets in a variety of colors and textures. PET is also spun like cotton candy to make fiber filling for pillows, quilts, and jackets; and it can be rolled into clear sheets or ribbon for VCR and audio cassettes. Soft drink and water bottles are made from this resin as are many other plastic containers. As of August 1, 2006, PET#1 prices were \$280/ton baled.

High-Density Polyethylene (HDPE#2) designates a denser form of polyethylene and can be colored or clear. Natural HDPE#2 is translucent white and does not contain any pigment, so it is the most valuable because it can be made into any color during the recycling process. Clear and colored HDPE containers are recycled into plastic pipes, lumber, flower pots, recycling and trash cans, or non-food application bottles. As of August 1, 2006, prices for Natural HDPE were \$560/ton baled, and \$360/ton baled for Colored HDPE #2. The graph (right) shows the market prices for these materials in 2005 and 2006.

Plastics Market Prices

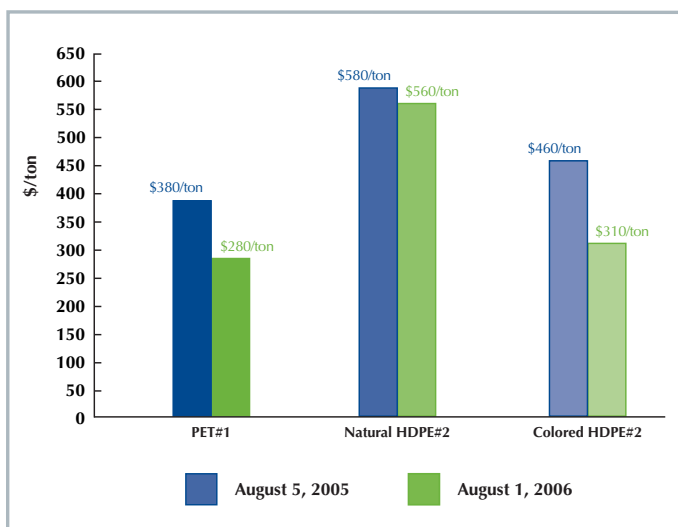
Average Recycled Commodity prices in U.S. dollars for baled materials, unless indicated.
Northeast USA/Maritimes Region*
August 5, 2005 and August 1, 2006.

Plastics (\$/ton)	August 5, 2005	August 1, 2006
PET#1	380	280
Natural HDPE#2	580	560
Colored HDPE#2	460	310

*Northeast USA/Maritimes Regional prices were selected because they represent a large Mid-Atlantic market. New York market prices are no longer available.

Northeast USA/Maritimes Recovered Plastics Prices

Baled Material Picked Up at Seller's Dock



Products Made From Recycled Plastics



Plastic Lumber



Sporting Goods



Tools

To join SORRT or learn more about business recycling, call Gabriela Monzon-Reynolds,

Business Recycling Program Manager for Montgomery County.

240-777-6400; 240-777-6442 (TTY); 240-777-6465 (fax); e-mail: recycle@montgomerycountymd.gov

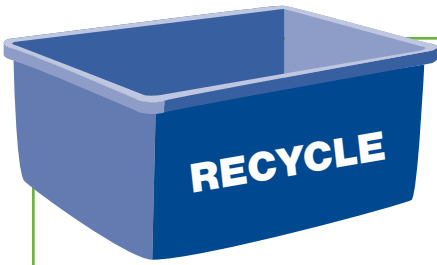
VISIT US AT OUR WEB SITE: www.montgomerycountymd.gov/recycling



Montgomery County Department of Public Works and Transportation

Division of Solid Waste Services

101 Monroe Street, 6th Floor, Rockville, MD 20850-2589



There's always time for recycling . . .



Recycling Checklist

Commercial properties and businesses **MUST** recycle the following materials if these products are generated:

MIXED OR SORTED PAPER



White paper & colored paper



Corrugated cardboard & boxboard



Newspapers and inserts



Magazines & catalogs



Telephone directories, paperback books



Unwanted mail and other clean, dry paper

COMMINGLED CONTAINERS



Glass bottles and jars



Aluminum cans and foil products



Bi-metal food and beverage cans



Plastic narrow-neck bottles

(The opening of the container must be narrower than the body of the container)



YARD TRIM

(Grass, leaves, and brush)



CHRISTMAS TREES



SCRAP METAL

Businesses are encouraged to voluntarily recycle the following materials:

- Toner cartridges
- Pallets
- Computers
- Batteries

www.montgomerycountymd.gov/recycling

A611-004 082506

Printed on Recycled
and Recyclable Paper



Montgomery County Division of Solid Waste Services
SORT Program
Contact: Gabriela Monzon-Reynolds
101 Monroe Street, 6th Floor
Rockville, MD 20850
Important Contact Information
Division of Solid Waste Services
(240) 777-6400
(240) 777-6442 (tty)
(240) 777-6465 (fax)
www.montgomerycountymd.gov/recycling
e-mail: recycle@montgomerycountymd.gov
Recycling for Businesses
(240) 777-6400
Recycling for Multi-Family Properties
(240) 777-6400
County Transfer Station
(301) 840-2370
County Recycling Center
(301) 417-1433
This information is available in an alternate format by
calling Gabriela Monzon-Reynolds at (240) 777-6400.

PRESORTED
FIRST CLASS
PAID
ROCKVILLE, MD
PERMIT NO. 138

2006

Special Edition:
INNOVATION

